

Title (en)
FIXED POINT MECHANISM

Title (de)
FESTPUNKTMECHANISMUS

Title (fr)
MÉCANISME DE POINT FIXE

Publication
EP 3556520 A4 20200115 (EN)

Application
EP 17880230 A 20171218

Priority
• CN 201611169116 A 20161216
• CN 2017116826 W 20171218

Abstract (en)
[origin: EP3556520A1] Provided is a fixed point mechanism. In the fixed point mechanism, when a drive torque acts on a first connecting rod member (100) or a slide block device (110), the fixed point mechanism can realize a rotation movement around a fixed point; when a drive torque acts on a fourth connecting rod member (103) or a sixth connecting rod member (105), the fixed point mechanism can realize a telescopic movement relative to the fixed point; and when a drive torque acts on the first connecting rod member (100) or the slide block device (110), and another drive torque acts on the fourth connecting rod member (103) or the sixth connecting rod member (105), the fixed point mechanism can realize a rotation movement around the fixed point and a telescopic movement relative to the fixed point. That is, the fixed point mechanism has two degrees of freedom of the rotation movement around the fixed point and the telescopic movement relative to the fixed point.

IPC 8 full level
B25J 9/10 (2006.01); **A61B 34/30** (2016.01); **B25J 3/02** (2006.01)

CPC (source: CN EP US)
A61B 34/30 (2016.02 - EP); **A61B 90/50** (2016.02 - EP); **B25J 5/007** (2013.01 - US); **B25J 9/104** (2013.01 - EP); **B25J 9/106** (2013.01 - CN); **B25J 9/1065** (2013.01 - EP US); **B25J 17/0266** (2013.01 - US); **B25J 18/007** (2013.01 - US); **A61B 2034/302** (2016.02 - EP); **A61B 2090/506** (2016.02 - EP); **B25J 3/02** (2013.01 - EP)

Citation (search report)
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• [A] US 7021173 B2 20060404 - STOIANOVICI DAN [US], et al
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• [A] SERHAT AKSUNGUR ET AL: "Remote Center of Motion (RCM) Mechanisms for Surgical Operations", INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS, vol. 3, 1 January 2015 (2015-01-01), pages 119 - 126, XP055648893, DOI: 10.1039/b000000x
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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3556520 A1 20191023; **EP 3556520 A4 20200115**; **EP 3556520 B1 20210630**; BR 112019011770 A2 20191029;
BR 112019011770 B1 20230502; CN 106584445 A 20170426; CN 106584445 B 20181225; US 11148302 B2 20211019;
US 2020009748 A1 20200109; WO 2018108184 A1 20180621

DOCDB simple family (application)
EP 17880230 A 20171218; BR 112019011770 A 20171218; CN 201611169116 A 20161216; CN 2017116826 W 20171218;
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